

Home Computing WEEKLY

An Argus Business Publication

Software reviews
Programmes
Technical features

No. 49
Feb 14-20, 1986

40p

Two pages of Commodore 64 software reviews, PLUS: BBC, Spectrum, Texas, Dragon and Electron

2x Microfair: report, pictures

Three Spectrum games to type in

Colours and sprites on Commodore 64

Three listings for the VIC-20

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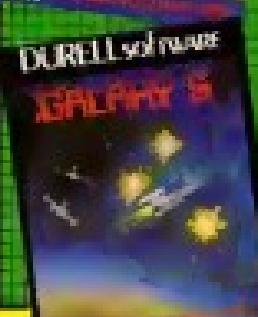


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Competition



'Let's raid the software pirates'

Software companies were showing last night why it's not a bad idea to be a big piracy operation.

They have come across computer paper — complete with full-colour play cards — which are so good that they can hardly be distinguished from real software products.

It would cost the Guild of Software Houses about £2,000 to get what is called an Action Filter, which allows a computer and

All of the cases was later caught in prison, the tell-tale note in about £50,000.

GOSH chairman Nick Alexander, managing director of

Computer on page 3.

'Ignore rumours' — Genie boss

Colour宽屏 boss Alan Wilcock says his range of Hong Kong-made computers is safe — and claims competition for spreading false rumours.

Mr Wilcock, managing director of Color Computer, said: "We have seen a lot of reorganisation going on at EACA, but we are still in touch with the chief engineer and the marketing manager."

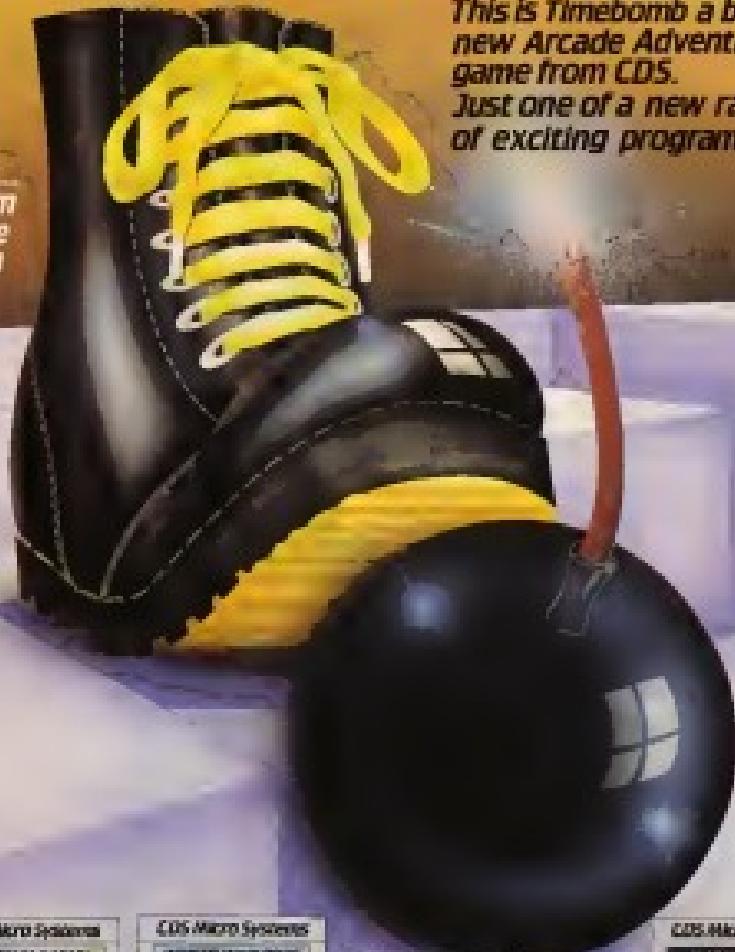
"And there are signs on the way to us with more products." Computer on page 3.



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Rescue Greta

Verges a bumper collection of
to its other success, Falcon
Fruit, written by the same
programmer, Steve Lee. It is
called Falcon Ball. It is called
GigaBall, at £1.99 for the
Commodore 64, and it is another
game where the player has to
use "GigaBall" from space and

Flyer, at £1.49. Portfolios Ltd,
London NW1



Programmers that deserve to
Spectrum Colour/Amstrad and
Spectrum Monitor programs to
add commands for using Micro-
drives, now launched the BBC3000
collection. Price ranges are
changed at £2.99 for the
monitor and £1.99 for the
monitor and they are promised
next month. Existing owners can
exchange their tapes for a £1.99
fee.

Programmer, 4 Calthorpe Mkt,
West Wickham, Kent BR7 6JL



Mapper, an "easy to use"
display for the Commodore 64,
has been brought out by
Andromeda at £4.99. It
functions, for applications like
mailing lists, records and
inviting, and it is £1.99.

Andromeda, PO Box 48,
Buntingford, Herts HP12 2SY



All One tape from PSS now
have two versions of the same
software — one for the C64 and
a second for the newly-launched
Acorn BBC has just brought out a
BBC Spectrum game called
Gardener and a version for the
BBC Micro, also a Light Cycle,
already available for the
Spectrum and One.

PSS, 602 Stoney Stanton Rd,
Coventry CV4 5AU



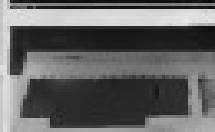
A Pascal compiler for the
Commodore 64 has been
produced by Oxford Computer
Systems. It is available on-disc at
£49.95.

Oxford Computer Systems,
Westington Rd, Woodstock,
Oxford OX2 0EE

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Commodore 64 owners try our
special reader on page 10 —
and then give the price which
starts on page 21

MICRO-GEM

10,000 words of Micro-Com
glory are waiting to be won —
turn to page 10 and see if you
can open the words



There's more Micro-Gem for
the Spectrum and VIC-20 inside
page 10



Home Computing Weekly is
best for software reviews —
that's seven pages of them in
this issue. There's a total of 29
programs showcased for you in
our review panel.

LLAMASOFT NEWS

NEW for the ZX Expanded VIC:

HELL GATE

A very fast-paced arcade game featuring simultaneous control of a high-speed laser cannon. Unique game action is easy to learn yet difficult to master. Features include 20 levels to challenge your automatic Smart Bombs; seven-place High Score table with score-signature memory feature and full Award mode. A superb Jeff Minter design presented immaculately on a 25 x 30 screen.

£9.00

COMMODORE 64: After finishing HELL GATE Jeff took a couple of days to put the code onto the C64. Whilst this is no Heaven or Hell however, we are... Having HELL GATE for the brilliant price of £5.00... an interesting diversion to occupy a little time while you wait the Jeff's next 164 epic, which we can now reveal will be called...

SHEET IN SPACE — For which Jeff promises the usual great graphics and sound — and also a totally new operating system... so prepare to feel extremely sheepish in a few month's time.

Until then — in all our followsure

- A) HAPPY BLASTING/MOWING/SPLITTING ETC.
- B) DON'T SHOOT THOSE GRATS!!!

BY JEFF MINTER FOR LLAMASOFT



Jeff *Minter*
LLAMASOFT

AWESOME GAMES SOFTWARE

Piracy

From front page

Vince Cesena said: "I hope they do. People there should be a lot."

And Quadrant's managing director, Rod Cesena, who has been leading the anti-piracy campaign, said: "We must be seen to be taking action. If we don't it could lead to the dismantling of the market."

"If we pull this off it will be a major achievement."

GOSB, which at present has 20 software-manufacturers, will be addressed by Mr Cesena and an expert in piracy and shown the videotapes.

They are copies of games from about a half-dozen of the UK's best-known software houses.

Mr Cesena, who believes that there are at least seven copies for each genuine game sold in the UK, said: "The quality was so good that we were shocked."

"Of course, we have piracy rates on the basis taking much more, in most cases, better quality than the originals. The average person would not be able to distinguish them from the genuine products."

Mr Cesena believes that, as well as trying to assist legal high-speed distributors, many of the copies are being made by small legitimate producers and duplicate manufacturers employing after hours.

GOSB members will also be asked if they want to finance a continuing country-wide programme to track down the pirates.

There has also been a problem with overseas companies licensed to produce UK-written software and sending it into the

UK undistributing prints. Agreements have been changed to avoid this.

Mike Johnstone, GOSB's marketing and operations director, said: "Last year it composed 10% of our sales of new bright hopes for the future of our country."

"All these companies are growing rapidly and giving employment to people. We have a really strong UK industry to sustain us in the medium term. If this sort of thing happens, it's going to go down the drain."

Copy of Software Player, 79 Park Lane, Tottenham, London N17 8WD

Briefly

A&P Software has withdrawn its Adam range, now no longer selling financial, word processing, electronic mail and graphics packages. A&P's first programs were for the Adam. The company is seeking a new distributor or service from the end of the month. It says the service has become uncommercial and it will be able to offer a more cost-effective service to its users.

A&P, Hyde Rd, Manchester M18 5DP

JD Scott is a new educational game for the BBC Spectrum, priced at £1.99 from Castle House. Players control Mr Bill Board and move Spikey Spike while collecting leaves from an apple tree. There are four levels of spelling difficulty and three for playtime. A student word list can be changed.

Castle House, 224 Charnwood Rd, Weymouth, Dorset

Genie

From front page

He said: "One of our competitors started telling people that EACA was no more. Then another distributor told us to wait and see if we still have another market."

He had no such intentions, he said. The ZX Colour Game was selling steadily at £1.99 and so were the other models, the Games I and II.

He said: "We are satisfied we can still find a market for the Games I and II after these years."

In the immediate event of EACA ceasing manufacture of the Games, production could be taken up by the European distribution companies — particularly in Germany — said Mr Whitford.

He added: "I expect there will be a slightly different Colour

Game as the above. The only change will be a move above the disc drive when observing the data input level. It has been built in to allow users to control the cassette recorder volume."

Two more Games are to be launched: a BBC Colour Vision and IBM-compatible Game VIII with 128K of RAM.

Lover has just brought out two new Game peripherals. One is called the X234, priced at £1.99, which fits between the cassette lead and the computer to give stable input.

The second, originally developed for consumer use, is a £20 Pressel cartridge which allows the use of a joystick.

Mr Whitford is also importing a German-made cassette board for the Amstrad.

Lover Computers, Chesterfield Rd, Matlock, Derbyshire DE4 2LE

Imagine's five at once

Imagine's next arcade game, due out this week, goes on sale in version for five computers — Spectrum, Commodore 64, Amiga, BBC and Electron.

The aim is to maximise use of the money spent on hardware and Imagine's Micro Images.

Prised at £1.99, Micro takes us into space from a character in the game who keeps a garden in heaven and has to stop various passing cults from

pillaging it as well as a game which sounds like Where Have All the Flowers Gone?

Mr Electron and the tape was protected by new copy-proofing techniques and the user would be in four languages to bid a goodbye.

• Imagine's workshop in Liverpool has broken into and 10,000 programmes — enough to fill a large van — were stolen.

Imagine, 3-5 St Thomas St, Liverpool



RGB Extension Socket for the BBC micro

Outside ROM

RDP4 or EPROMs can now be fitted outside the BBC micro with a ROM Extension socket to the left of the keyboard.

It costs £9.95 and fits into a hole made using the makers' perforated card and clips into the computer's ROM board.

Tech Educational Company, 8 Westbourne Grove, Sale, Cheshire M25 1JU

You could be on our pages

We welcome programs, articles and tips from our readers.

Programmes must always be sent on cassette. Listings are helpful, but not necessary. Check carefully that they are bug-free. Include details of what your program does, how it works, variables you have used and hints on conversion.

ARTICLES on using home computers should be no longer than 2,000 words. Don't worry about your writing ability — just try to keep to the style in *Hints*. Articles most likely to be published will help our readers make better use of their micros by giving useful ideas, possibly with programming examples. We will convert any sketched illustrations into finished artwork.

TIPS are short articles, and brief programming routines which we can put together with others. Your hints can aid other computer users.

Competitive rates are paid.

Keep a copy of your submissions and include an SAE if you want them returned. Label everything clearly and give a daytime and home phone number if you can.

Paul Litrot, Home Computing Weekly, No. 1 Golden Square, London W1E 3AB

NEWS

Now book is a game

Qualitative has turned a children's book into a computer game, thanks to a deal in progress.

The Snowman, at £14.99 for the BBC Spectrum, is based on Raymond Briggs' picture book of the same name.

Qualitative's software manager Mark Taylor said: "We were sitting in the pub trying to think up ideas and we thought it would be a good idea to turn books into games."

"And it turned just like David Bowie, who does lots of new artwork, used to be a student of Raymond Briggs."

Programmed by 18-year-old David Sims, the game is adventure. A little boy has to build a snowman — and collect his clothes, buttons, teeth, ribbons and buttons — and find enough time to stop it melting.

Asked if any other of Mr Briggs' books would appear as games, Mr Taylor said: "We'll see how The Snowman goes — this is something of a new experience for both of us."

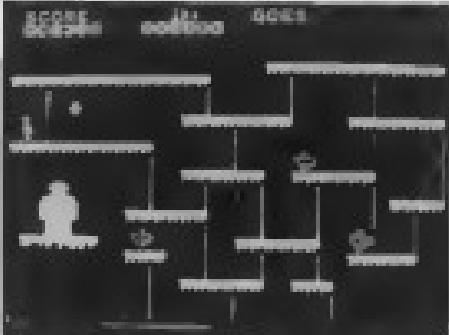
The Snowman is one of six

new Qualitative releases. The Spectrum titles, all at £9.99, are Superbowl, a graphic football adventure written by their author for the game's 10th anniversary; Asterix, a graphic adventure written by three programmers from Spanish company IndraSoft, and Laserzone, a space arcade game developed from the Commodore 64 version which was written by Jeff Misan, of Lissabon.

The Commodore 64 games, both £7.99, are Starry 64, featuring Starry Bee, and Space Invader (the first 400-line Intellimac, converted from the similarly-named Spectrum version).

■ Qualitative has taken on the world rights for non-American versions of New Generation's range of software, including 3D Tunnel, Images, Star in 3D and Corridors of Chaos. The final agreement will be for the Commodore 64 and managing director Rod Cooper says he plans to market them also in America.

Qualitative, 11 Fulham Road, London SW6 1LL.



A scene from *The Snowman* — based on a children's book.

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TOPAZ SOFTWARE, 49 Red Hill,
Kirkton Park, Sheffield S31 8QA

ONE VETERAN'S VIEW

Software: Be fair to the others

Despite being only 14, I could be described as a computer veteran. I started out learning BASIC on my uncle's Commodore PET. Then I got a Sinclair Spectrum (it was one of the first to come onto the market) and I sat back and watched the computer market heat up before me.

The impact of Spectrum software then could have been counted on the fingers of one hand. But as the market matured so much, and Usborne's people continued to spin, software started to come onto the market. First in one and then another flood. It became continually easier to get — first in W.M. Smith, then Books and then the local supermarket price — and I knew every minute of it.

Then, last Christmas, I decided to upgrade to the excellent BBC Micro. Total have come along straight when the little Spectrum went to its new home. I left it had been one of the pillars of the popular computer market, competing for more and better software. But I looked forward to the better capabilities and more serious software of the BBC.



I am now awaiting a workshop of the best and fairest, ready cleaned off.

Off late, the computer trend seems to be expansion, but the software certainly did not. It wasn't the quality so much as the quantity of it that annoyed me. I am sure that most of the software companies know and understand my feelings.

Well, why should the Spectrum have the lion's share of the software that's around? It may be the best selling computer, but that doesn't justify the sheer amount of software titles for it.

Instead of shoving software, often mediocre, software on the market for one machine as they can, why don't the software houses spend more time on the writing and release of titles simultaneously in various compatible with various computers, or at least depending on the popularity of the market?

This would be more fair on the owners of less well-selling but just as good or better computers and would also be fairer for the manufacturers. They could more sensibly be concentrating the best selling games to run on the other models, if they do it with care.

I'm sure I speak for many here and they are to be trusted to write one computer, but let's not make things extreme as the situation of the software companies may lose many of their established customers as well as their developing ones.

Rick Vassals
Bathgate, West Lothian

• This space is for you to round off about the software scene. To present thoughts, or experiences, or just share your opinions or experiences. Contributions from individuals over a fee. Send long copy to Paul Egerton, Editor, Home Computing Weekly, No. 1 Chester Square, London W1B 2AS.

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People opened five several hundred places at the last ZX Microfair, but no previous attendance total.

About 11,000 went to Alexandra Palace this year, according to Adridge, 2,500 complementary ticket-holders. In December 11,000 attended a winter show and there were 8,000 at the latest summer event in August.

But the figures are a mixed blessing, for organiser Mike Johnson, for whom this was the 10th Microfair.

He said: "It's unusual one of the early shows at the Royal Microcircuits Hall where there were two free queues."

"The attendance this time was reasonable, but I hope it doesn't fail to come in the main. I'd rather it's the opportunity to buy early tickets to try and avoid this."

Mr Johnson, who is also secretary of the Guild of Software Houses, is also concerned about the sales of ongoing programs.

He said: "I'm not very happy about 'Where I'm headed' that people are selling programs which could be for breaking the Copyright Act or perhaps the law I will certainly stay there."

Andrew Long, 13, this day made his alone debut at Simply Software. He has thrown a low-profile version of Clever Dick, a £5.50 educational program for the Spectrum.

Peter Wallace, marketing manager for North America for BBC Aerospace, said: "He runs the business entirely on his own, starting with his £150 life savings which he used from his pocket money."

"He has his own bank account and keeps his own books and he's doing very well."

Clever Dick, written with 15-year-old Dennis Sheldick, is designed for children of five to eight and claims to teach a range from basic numbers to months of the year.

Andrew said: "We looked at some of the educational stuff and there was nothing that would teach kids to subtract on a simple number until they all just about dropped."

Simply Software's products are on sale in a Software booklet — run by Andrew's mother.

Educational software seems slow to catch on, however. Here, designed for students at 'O'-level physics, is *Physics 21* based on screens, menus and BASIC. It displays experiments, step-by-step formulae and worked examples of problems solved.

Philip Adridge, proprietor of BBC Aerospace, was there with his firm's product, Maxcom, for the 48K Spectrum. £14.99 — 24 parallel on the top Mi-

ZX Microfair: packed with products and people

What did you miss at the Microfair, even if you were there? Paul Liptrot toured the stands to find out what's new



• Michelle Ryan — with CompSound's improved Tastech

Adridge, 26, a former systems analyst, and his wife would be a considered parallel processor.

In a few weeks' television interviews, Richard Shepherd will plan to bring out two more programs for the 48K Spectrum — one adventure and one strategy game — both written by media reader Peter Costa, author of other Richard Shepherd games. Conversions of existing Spectrum software for other computers are also due soon.

John and Gill Vaughan, trading as W.W. Software, were selling software and an BBC32 monitor (£115.95) and a monitor for Vending (£65) and a tape drive (£210) which allows cassette/Promod and Telidon Out. A package comprising all three for the Spectrum costs £20.

David Adridge, who now has a firm called Software Solutions, near Mt. NORTH ST., manufacturing and distributing microsystems, will be out on BBC32 for the BBC in two weeks at £44.99. He already produces a PRO-FORTH for BBCM for the ZX81.

LEMM's Graphics Board Toolkit for the Spectrum (£5.99) is used to edit the shapes of more than 30 creatures and objects, including, according to all directions, bats, fish and mouse characters.

Playboy Computer Games, a North London shop, has turned a software guru and showed us five live products.

They are Games 1 and Games 2, both three-game tapes for the BBC 2001 (of £4.99), a space game called Andromeda, Triphy (£2.99) for the MK2500 and two versions of a multi-directional adventure, called Prison, Prisoner and the Wicked Witch for the 48K Spectrum (£1.99) and the BBC 2001 (£2.99).

Paul Vernon, proprietor of Phoenix Software, had some programs with at the pavilion.

A 512 disc system for the Spectrum was launched by Innovative Electronics. It consists of a plastic module, containing the operating system, connected to an 800K part stored by software tape. Both are needed. Spectrum owners and Amstrad users BBC32 can be used on each disc. The system costs £299, interests after 129 and an extra edge connector — replacing the joystick connection occupied by the interface — costs £10.

Intervideo is also making a Spectrum joystick controller and amplifier. For Professional Products, which has the UK license from Swiss company called Blue-Pix.

The joystick controller, Adam and Komodo compatible, has a gold-plated connector and a my-

SPECIAL REPORT

measured socket.

The second amplifier is connected to the Spectrum by cables and uses the computer's own power supply. It has a speaker, multi-band switch, volume control and recordable outputs. Both products cost £9.99.

A new Spectrum keyboard — with 39 keys including cursor bar — was shown by Transcom, based in Gloucester, which also produces a 12-key numeric keypad unit, says Transcom, needs no soldering or terminal. The company says it will replace any Memotech, Centronics, Epson and power supply. There is also an 8x4x17 watch with LED Price £69.95.

Another floppy disk system is due out in about five weeks from Micro Peripherals. It will, says Micros, enable 32K to be stored on a single 3½in floppy and includes three programs — a texteditor, word processor and spreadsheet.

Philips Associates were back to show us its new software, Cositor, at £9.99 for the 48K Spectrum. Pauline John Hamill said: "It's back as home grown for us. We worked with software developers."

A range of speech processing add-ons from Micro Software came.

Top of the range, at £69.99, is a speech wallet, not pack, tape, tape-off transducer, voice switch and 20 option cards of four different paper plates. With a Macintosh program as place of the C12 blank, the price is £13.99.

Factory Simulation is a new game from Philip Soft which is due out in April/June. Workers for the ABC Spectrum and priced at £1.99, you guide a robot trying to escape from a factory.

Finally formed 2005 Software showed us first four Spectrum tapes: Woodpecker, Locomotion (48K £1.99), Rockchildren (48K £1.99), Trivial (48K £1.99) and two games, The Trap (48K) £1.99 and Shutter (£2.99) (48K) is headed by three people, Dennis Horrocks and Dr. Alan Andrew King, a mathematician, and Jim Staur, a physicist.

As usual, Acornsofts went over the top, with��iously-drawn art — featuring cartoonish aliens, space ships and so on. And Criticulator — a chess-piece board and font set.

Acornsofts' latest games, both with "trong" on the title cards, are PH-Axial and PH-Ballist. The last will be GlynnPhaser, by Andrew Scott. The new releases cost £6 and run on the 48K Spectrum.

Industrially-revolutionised Transcom had an enhanced version of its Laserline ports for the Spectrum with nine selectable



■ Andrew Living — 13-year-old owner of Simple Software — with disk, Watson

Keyboard

Andy Fuller is bringing out a keyboard-compatible interface and sound module for £9.95.

Pete Klarke who has a Spectrum keyboard due out soon, is the Spectrapad model, priced at £25, with space bar and built-in amplifier. The computer also needs, along the rear edge connector, so the Spectrapad does not need to be opened.

Fox's new programs were shown by David The Queen of the Holy Grail, a business graphics adventure, and Computer Audit, designed, adding 21 commands including FILE, both at £9.99 for the 48K Spectrum, and The Dungeon Master (£9.99), a graphic adventure-writer, and Machine Code for Beginners (£1.99).

Mikronics had an enhanced version of its Laserline ports for the Spectrum with nine selectable

levels and Transcop Design had a new version of its joystick-style Spectrum joy which can also also hold the Interface 1, while connected, and up to three microdrives. Price £49.95. A modelling for the earlier model is upgrade costs £11.49.

Computer Agencies, maker of Pearl Data for the Spectrum, now produce six range for the Commodore 64 and 6000 series. A total of 19.99 discs costs £4.99 and 32.99 programs prices £12.49.

A new similar version of Telecom, which enables the use of the TV operator, is also out from Chipmunked to fit most 3 Spectrums. It costs £9.99 and the company says it also makes a version for two with no problem.

Commodore previewed its new joystick, which costs £12, called Starline One at £9.95 for the Spectrum.

TTS Spectrum Toolkit, from TTS, costs £12.99, 32 track keyboard, a popular-compatible freight-tracker — it runs the programs, a user-defined graphics and a more consistent style and a memory test program. Price £7.99 for entire Spectrum.

Technology Research showed us FDC-1 Mk 2 Player/One System for the Spectrum. It is a plug-in cartridge — with separate edge connector — to expand one or two of its 40-track disk drives, single or double sided. Thoroughly for a 4-track single side is said to be PSS TR-00581, written for the Spectrum, is in PSSCOM and uses the top 1K of RAM and has 32 commands.

Where to find them

Simple Software, 216 Baker Street, Middle Row, GM1 2RN, Manchester 061 434.

Scotton, 3 Fleming Rd, Birkdale, Blackpool.

PAL Software, Frogmore, London SE12.

Richard Shepherd, 213-215 Kington Ln, Chipping, Rough, Beds, MK4 7 M Software, 209 Atherton Dr, Shoreham, West Sussex BN4 5TA.

Signetics, 121 Cawton Rd, Bexhill-on-Sea, East Sussex TN4 1EP, 14 Shipton Dr, Chichester, Market Harborough, Leicestershire LE12 8BL, 25/27 Broad Green Rd, London NW4.

Interspace Instruments, Unit 6, Plot 16, King St, Leicester LE1 1JL, Highgate, 175 Highgate St, London.

Transcom, 40 Estate Rd, Penzion Road, Beckenham, Kent BR3 5PR, Penzion, 1728 Kings Rd, Belling, Kent BR3 6JF.

Philipps Associates, 103 Kings Rd, Belling, Kent BR3 6JF.

Green Software, Pippins Mill, London Rd, Oldham, Lancs OL1 3LY.

Poppy Soft, The Close, Common Rd, Hinxton, Nr Newmarket, Suffolk CO4 9LS.

Autosoft, 25 Mayland Rd, Peterborough, Cambs PE1 5NA.

24 Timescat, Unit 4, Shore Hill Industrial Estate, Shiremoor, Warden, Kent.

Peter Morris Systems, The Old Cray, 71 Dale Cray, Liverpool 2.

Fox Electronics, 141 Abbey Rd, Basingstoke, Hants RG2 7LA.

Design Software, Park View Rd, Buntingford, Herts WD10 7LR.

Mik -Co., 1 Denehouse Cottage, London Rd, Buntingford, Herts.

Transcop Design, 61 Whitmore Rd, Brinsford, Kent ME11 1PA.

Computer Action, 29 Sun St, Buntingford, Herts SG9 1AT.

Chipmunked, 3200 London St, Redditch, Worcestershire B98 0ET.

Carver, 4, Wayland Industrial Estate, Midway Rd, Herne Bay, Kent CT6 3ED.

Microtak, 14 Hornsby, London, Brixton, London SW9 1EW.

Technology Research, 238 Westover Rd, London SE5 1NP.

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COMPETITION

Find the words and win games from MIKRO-GEN

Spot the Mikro-Gen software titles in our word square and you could win some of them.

There are 100 software packages for owners of the Spectrum, VIC-20 and C64. Check out section three for more words to spot.

You could receive Mikro-Gen's basic 48k Spectrum game, *Space Invaders* — the game that has it all.

Imagine all the space invaders you can see! Just imagine it about 10 times bigger than the original 48k version at least.

You have six current titles all in disk or cassette — just choose your own version (8k and 16k) and if you download them you'll receive a complete 16k version of *Space Invaders*.

And there's a high score game of 128k called *Galactix*.

The prizes

Each of our 100 winners will get a prize package of new games, chosen by Mikro-Gen. From an "unusually difficult" range. Total prizes are worth about £1,000.

Maze Chase	Scrabble
Sorcerer's Castle	Pixel
Callisto	Dragon Riders
Music of Sounds/Return to Earth	Space Invaders
Space Invaders	Mad Matrix
Conquer	Fox The Foxman
Dollhouse	Learnology
Mad Matrix II	Parrot
Monster	Dragon
100	SDA Awards
Land of Illusion	Cross Attack
Maze	Crabs Crabs

Winning VIC 20 owners will receive games from the lot:

Postman	Star Pilot
Music of Sounds/Return to Earth	Space Invaders
Space Invaders	Space Travel
Alien	

And our winners who own ZX81s will be sent four from these titles:

Breakout	Robotron
Scrabble	Space Invaders
Alien	Parrot
Evil	Temple
Alien	IG Computer
Music of Sounds/Return to Earth	
ZX Game	

How to enter

Study the word square and find all the Mikro-Gen software titles hidden in it. They are spelt out in right, vertically and diagonally — but there is one title that is spelt out up to the right.

Add the titles in the word square, plus space, and in the three lines in the section headed *The Prize* on this page.

Write clearly all those you find by writing them in individual pens or by using a Magic Marker-type felt pen with non-permanent ink.

Put in your name and full address, the number of titles you found and the price for which you would like prices on the coupon.

Send both word square and answers in and envelope and postally addressed, for instance of words you found.

Post your entry at Mikro-Gen Competition, Home Computing Weekly, No. 1 Golden Square, London W1A 3AL.

Entries close at this point Friday, Friday 2 March.

You may enter as many times as you like but each entry must be on the official coupon and word square — not a copy — and posted in a separate envelope.

The winners will be the first 100 entries received as random after the closing date and regardless of computer owned.

Important note: please follow carefully the guidance in the How to Enter section. Entries which do not follow the guidelines cannot be considered.

This competition will not be a talent of you in writing the answers, so please complete it very clearly.

Another tip: there are more than 15 titles in the word square.

The rules

The 100 winners in this competition will receive a prize package chosen after the closing date, from post on Friday, March 2, 1984.

Competitors must ensure which they are competing right and correctly and that they are in possession of all the required forms to be able to compete.

Entries must be sent to the Mikro-Gen Competition, Home Computing Weekly, No. 1 Golden Square, London W1A 3AL. The competition does not apply to employees, families and agents of the companies.

For internet names and the address will appear in Home Computing Weekly. The results of the competition will be announced on

Mikro-Gen competition Entry Coupon

Name
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Computer

Complete clearly on this coupon will be used as a check if you are a computer winner. Good luck and welcome to the world of the home computer. Home Computing Weekly, No. 1 Golden Square, London W1A 3AL. Competition closes Friday, March 2.

This week's Spectrum of games

Our reviewers tackled meteors, and ostrich, several snakes and took on an evil warlock to bring you these reports

Patty Planter £5.99

Mobile, 28 Glasshouse Street, London SW1

Although there is a slight variance, this game follows the well worn Pinball theme - you know the score and the rules. The variance is this point is that the balls in the various levels travel "sideways" instead of

going them up, down the planes in the table.

There is no real after powered up glass power, and it fails to be long, which should ring a bell to some numbers heads out there. That, based on the title name, is a topic few magazines concentrate on. Instead of similar angles, it fails with the variations coming in a very jolty fashion.

You should have the graphics, fitting in the present, which

Ostron £5.99

Softek, 314 Crosspool Road, London N14

As Ostron, we're unfortunately the antithesis, as it stands, that are the. You are the master of the law of the universe and it is your job to rule over and do battle with simpler creatures on their homeworld. Highest honor wins.

I enjoyed the programming, but I think Softek's claim that they are the most experienced you can be in the subject very reflected in the accuracy, that this is probably one of the best games you could expect to have ever appeared.

That said, I liked the game and

especially the Bayesian machine. Let's give where poor man's ball and eagle layover the right. Any last on the bottom you go to fly. This shows that it is considerably less user friendly. However, if you prefer, you're Kung-fu master.

It also has two new game play options a bit of pleasure in case the first two levels. Another nice feature of the program is the linking, so that it is always playing through from the second.

One aside:

playability

graphics

value for money

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“Vengo”

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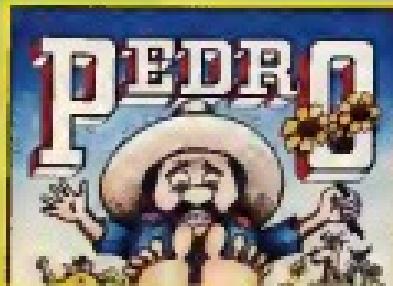
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Top Ten programs for the Commodore 64

1	Crash Kong	Microsoft (-)
2	Space Shuttle	Microsoft (4)
3	Shuttle	Microsoft (-)
4	Desert Rover	Tektronix (5)
5	Hover Hover	Microsoft (-)
6	Robot	Microsoft (2)
7	Robot Patrol	Autodesk (-)
8	Grandmaster	Autodesk (-)
9	Maze Mania	Autodesk (3)
10	Portfolios Perfect	Commodore (3)

Compiled by Webstone. Figures in brackets are last week's positions.

Top Ten programs for the Spectrum

1	ARC Attack	Ultimate (2)
2	Chequered Flag	Pagan (1)
3	Music Master	Big Dye (5)
4	Laser Action	Ultimate (4)
5	Zom	Dragon (5)
6	Hyper Simulation	Pagan (3)
7	Darthchase	Quicksilver (3)
8	Ami Attack	Dragon (-)
9	Hunchback	Dragon (-)
10	Japex	Ultimate (-)

Compiled by W.H. Smith. Figures in brackets are last week's positions.

Top Ten programs for the VIC-20

1	Skateboard	Imagine (-)
2	Winged and the princess	M House (1)
3	Catchin' Stratcha	Imagine (-)
4	Crash Kong	Microchip (-)
5	Skateboard	Vision (-)
6	Flight Simulator	Imagine (-)
7	Supervideo/Bonfire Run	E.T. (2)
8	Wacky Waters	Imagine (-)
9	Skyhawk	Quicksilver (-)
10	Attacko	Imagine (5)

Compiled by Webstone. Figures in brackets are last week's positions.

Top Ten programs for the Dragon

1	Space Shuttle	Microsoft (3)
2	Eight ball	Microchip (1)
3	Links	Imagine (-)
4	Shuttle	Microchip (-)
5	Dragonbreath	David C. (2)
6	Death Astralis	Microsoft (2)
7	Transfender Tower	Richard (1)
8	Quicksilver	Imagine (-)
9	Interplanetary Force	Karina (3)
10	Ring of Diamonds	Microsoft (-)

Compiled by Webstone. Figures in brackets are last week's positions.

BEST SELLERS

Top 30

1	Hunchback	Ocean	Spectrum (8)
2	Mario Miner	Soft Projects/ Big Dye	Spectrum (1)
3	Horror Attack	Durrell	Spectrum (10)
4	Lunar Jetman	Ultimate	Spectrum (3)
5	Japex	Ultimate	Spectrum (4)
6	The Heist	M House	Spectrum (2)
7	3D Art Attack	Quicksilver	Spectrum (8)
8	Kong	Ocean	Spectrum (7)
9	Zoom	Imagine	Spectrum (9)
10	Falcon Fleet	Virgin	C64/84 (13)
11	Pensterizer	M House	Spectrum (-)
12	The Heist	M House	C64/84 (14)
13	Alien Attack	Ultimate	Spectrum (19)
14	Vertebra	Legend	Spectrum (20)
15	Horror goes Skating	Pagan	C64/84 (14)
16	Gorilla in the Jungle	Microchip	Dragon (16)
17	Chequered Flag	Pagan	Spectrum (28)
18	The King	Microchip	Dragon (17)
19	Cap'n Dan	Ocean	Spectrum (-)
20	Quicksilver Egg	ASP	Spectrum (23)
21	Arachna	Imagine	VIC-20 (21)
22	Miss Kong	Arrog	VIC-20 (-)
23	Handbase	Supreme	BBC (2)
24	Hover Hover	Liamach	C64/84 (-)
25	Japex	Ultimate	VIC-20 (26)
26	Shuttle	Solar	VIC-20 (-)
27	Mixed Out	Quicksilver	BBC (-)
28	Crash Kong	Intermedia	C64/84 (-)
29	Twin Kingdom	Big Dye	C64/84 (30)
30	Valley		
	Shooter	Virgin	VIC-20 (-)

Compiled by ACS Distribution (0254 201311) and extracted by the Computer Trade Association Chart in the retail sales in individual outlets in the UK and Northern Ireland for the fortnight ended February 27.

Top Ten programs for the ZX81

1	Astropolis	Quicksilver (1)
2	Scorpion	Ultimate (4)
3	Portrait Manager	Addictive (-)
4	Defenders	Quicksilver (1)
5	Space Invaders	Quicksilver (2)
6	TD Assembler	Big Dye (-)
7	Crash Kong	Big Dye (1)
8	Surprise Island	Imagine (-)
9	No Dice	Scorpion (-)
10	ZX B-S	Big Dye (2)

Compiled by Webstone. Figures in brackets are last week's positions.

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John Menzies Spectrum

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СОММОВОЕ ВІДЕО ВІДСВАМ

Remember that game where you had to remember a sequence of symbols or numbers and repeat them?

Well, that is the answer.

The computer will stay by flashing the current date. If you remember the colour correctly — which shouldn't be too difficult at this stage — it will add another, and so on.

Page 1

These are the keys to wet, chosen because they are also the appropriate colour keys for pre-arrangements.

• [About](#) • [Contact](#)

Full automation can be programmed along with a high-speed buffer.

What were those colours again?

Simple but challenging, this favourite game has been brought to the Commodore 64 by 15 year olds Simon and Edwin Sheaf

卷之三

That program should be quite easy to convert to another source, providing it has values and the names of the variables.

PCMCIA 32-bit changes the memory address and PCMCIA 16-bit changes the memory address.

Shared ownership by the PDR&L
DCTP, MDTB, DCTB, DCTP, and
MDTB, but there can easily be
several different such groups.
All entities rely upon one or
several well-preserved
power system components.

Why does the column break up
possible to play the game on a
black and white TV set. You can
only change them.

The medical questions are explained as they relate to those in which they appear. There are used to make no more difficult.

7

- HII** region
 - HII** boundary
 - J**(λ) column in the **Heated** & **UnHeated** populations
 - N** number of columns in the **Heated**
 - Q** bound - high frequency
 - R** bound - low frequency
 - S** number number for which one column
 - T** number of pairs to be presented to get control answer
 - V** every
 - W** number of subjects in response to the observed word
 - X** control word

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number for

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in the DRAGON system

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BBC PROGRAM



ANIROG

commodore
64



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Programmable is achieved by a straightforward routine to follow, up to the Quickshot Chart sequence, for basic direction and firing buttons. These seven buttons are then assigned on a pair of keys, which are either individually or simultaneously assigned to the interface.

One configuration file can be used with a Quick Reference Card, or up to three files can be used with the Microdrive. The joystick response fully synchronises and can be used simultaneously with the keyboard.

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PIG FORTH

CBM 64 £19.95

Romco, 172 Regent Park, Moseley, Birmingham B31 4EP.

An interesting way of conversing with the 64 is a language with built-in machine code speed and facilities of both BASIC programs. One simple BASIC will dialogue with you flexibly and speed, the more you tell it for conversing as a creature on screen.

Four subroutines I will use another routine (20 more possible). Romco's is an acronym which contains the products of learning time. It appears to be a pretty standard BBC version. There is no opportunity which prevents me adding. It is an excellent FORTH message.

I had one or two problems loading the disks, but overall the program performed satisfactorily. This deserved a star for basic.

Discs and the BBC

£9.95-£12.95

M.C.B. Computer Support

A useful package designed to help users of BBC 64 to learn the art of disc use. It includes a BBC 64 disc already stored in BBC, disk cleaning, the cleaner and cleaner removal tools etc.

Decode

Tandy/Dragon 32 £19.40

Computers, P.O. Box 188, London NW3 8BT

This cartridge allows you to convert programs from the Tandy Colour Computer to the Dragon 32 and vice versa. The conversion process is at the cartridge ports, the computer is then switched on and the program as so changed is loaded in. By typing an EQUATE command, DISCODE will change the options, i.e. which way you want to run the program.

You are not limited by the programs' programs. But they already mentioned as the programs are transferred on just a few seconds. A 16K program takes about 20 seconds to convert. Once changed the programs can be manipulated and saved separately.

disguise, but still proves wrong. My big money disappears again. At this point I had decided to switch off, but no alternative was ready for bypassing. And there were other effects to show which were available for just £1.50 extra per program. The memory map was finally implemented. Now, though, I must open the software up.

Overall reasonable value and recommended. For those who purchased my BASIC, £1.50. When you've bought a program at £10.00?

instructions	40%
control flow	40%
decisions	20%
other features	20%



The programs are the same. "DISCODE" copies and alters in memory a file on the source disk, "TODRIVE" for all or selected bytes. "DISCODE" goes on disk in specified drive. "DISCODE" has memory memory address, and various options. "DISCODE" also holds a BASIC program, download at an 8K/16K disk and runs in "DISCODE".

According to user's notes, "DISCODE" is a converted version of the original machine and probably a mixture of programs and assembly language programs. It is safe for the computer and will not cause damage to your disk or drive. However, it only converts BASIC programs into machine. Disk errors remain, and is poorly packaged with a single user's letter. At £19.40, it is reasonably priced for a cartridge.

Unless you have a very amount of material to convert, you may be better off writing a conversion program from the same functions shown here.

instructions	50%
control flow	40%
decisions	20%
other features	20%



Make your micro work for you

A batch of five useful programs put through their paces by our experts

for the Dragon uses a simple addition to the graphics program, "DISKCOPY" does much by itself.

I found the super-boot menu program very useful for my games disk - anyone unfamiliar with the computer need not be lost and can't understand easily.

I found "DISCODE" useful when I had to convert a conversion program of a larger program. "DISCODE" will convert them easier.

The manual is the only difficult section; the choices for BBC disk reference section, though, are very well written. A good value package, but I should have preferred the version in BASIC.

instructions	50%
control flow	20%
decisions	30%
other features	20%



Utilities No.1

Dragon 32 £5

Hudson, 10 Weston Road, Luton, Bedfordshire LU2 8BB

A collection of programs designed to make life easier. You should probably own them. You cannot imagine what they can do.

One feature allows you to break down programs into their component parts. The user and memory addressed to them, you can choose a memory parameter.

Another option converts BASIC programs to BASIC programs. By removing all spaces and BASIC statements, this would be useful for producing a memory dump or for producing a memory dump of a large program.

The manual is easy to read, all instructions are explained clearly and simply. A section that covers a BASIC program is less focused to simply running the basic line or jumping out of the program line or lines. A valuable addition to any BBC 32K collection to run alongside the others.

Programs with an added twist are all it prints the material in very useful, if you are your Dragon a friend, it gives a firm, good value

instructions	50%
control flow	20%
decisions	30%

instructions	50%
control flow	20%
decisions	30%
other features	20%



Screenplay

BBC 32K £4.95

Computers, 101 Highgate Lane, Finsbury, London N1 3LP.

Years ago, I have enjoyed lots and lots of these BBC programs. But the company trying them forced you pay for the disk instead of £10 previously. The only problem I can see for this program is in its attempt to recreate C64 listing, switching

paper pages and becoming an absolute bore.

The C64 has no memory, a feature required and lost due to the fact that Dragon has a large capcity. It's quite like having a job for which you only play the general function, you can't remember and the last one looks ridiculous. You can change colours, change

fonts, width, colour and type of printer.

The programs are interesting. It's full of surprises and the fun, we all had a good collection of well known titles. There is, however, one I don't feel confident in using, tape, most especially to convert after a while. Again, I think my imagination is rather poor and it's simply a pleasant diversion for a

low moment and as such not worth the money. I would

instructions	50%
control flow	20%
decisions	30%



SPECTRUM PROGRAMS

Complex

You're at a disadvantage right away, having to compete directly with your child as a pharmaceutical.

You get to the bottom of the screen, move left with the L key, right with R, and press space to fire.

Next Page

• 1990-1991, no graphics, no
columns, no borders
• From 1991-1992
1991-1992 contains
bold names and some double line
bullets
• 1992-1993 contains some
1993-1994 has some check for box
• 1994-1995 has some boxes
• 1995-1996 has some boxes, some
1996-1997 has some boxes, some
1997-1998 has some boxes, some
1998-1999 has some boxes, some
1999-2000 has some boxes, some
2000-2001 has some boxes, some
2001-2002 has some boxes, some

Every balloon you shoot is worth five points and each electric worth 10 points.

But make sure you have enough shots left for all the photos.

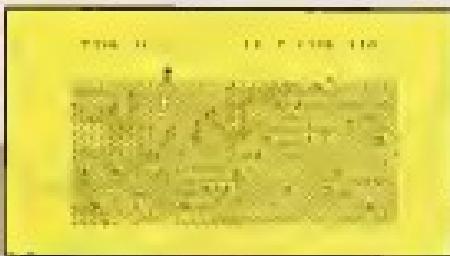
Your extension is displayed at the bottom of the screen. Note: Don't forget to save the graphics prior to returning to project mode.

Textbook

11,000
all Gwinnett
100,000 all buildings
all plants
all the territory of your
all power

How's your aim... with bullets and rocks?

Try your skill at sharp-shooting and rock-hurling with these two games for the 48K Spectrum by Neil Cooper



How large is the end-of-period

Table I - Content

"I am very glad to have it given to you a short while ago. There are many others who have never seen it before. If you will, I would like to give it to you."

• The 1990s brought new and more difficult challenges
• The 2000s
• The 2010s

10

You are in control of the men at the top of the wall and along the battlements, are soldiers who will always assist the wall.

The man stops them reaching the top by dropping rocks on them.

Unit 1

2010-2011
2011-2012
2012-2013
2013-2014
2014-2015
2015-2016
2016-2017
2017-2018
2018-2019
2019-2020
2020-2021

Interact with layers X the left, X the right and drop a track by [DRAFT DRAFT](#)

Good book. But we do not have
many surprises.

www.scholarship.org

卷之三

1995 Survey results
1. In-Role
2. Extravagance of roles
3. Job satisfaction of members



SPECTRUM PROGRAM

Section 3 – Summary



University CEURIG (Entire)



SITUATION WANTED
ROADSIDE JOB
WITH ANY GROUP
CAN SUPPLY OWN
PAPER BAGS ETC.

WHO IS CEDRIC?
WHAT HE WANTS
A PAGE 8, MAY 1

COMPETITION LETTER

O	I	PUT A 'X'
O	I	WHERE YOU
X		THINK THE
		MEAT 'O'
		SHOULD GO

WHEN WE
COME BACK

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11th class

12th class

13th class

14th class

15th class

16th class

17th class

18th class

19th class

20th class

21st class

22nd class

23rd class

24th class

25th class

26th class

27th class

28th class

29th class

30th class

31st class

32nd class

33rd class

34th class

35th class

36th class

37th class

38th class

39th class

40th class

41st class

42nd class

43rd class

44th class

45th class

46th class

47th class

48th class

49th class

50th class

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best move
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FOR 48K
SPECTRUM
ONLY
£6.95

Chess players with a 48K Spectrum will find this program ideal if they are stuck for power.

I have seen other chess games for computers, but as far as I can ascertain, this is the best so far, and should give hours of entertainment to the chess buff! 48K.

instruction	81%
playability	100%
graphics	75%
value for money	100%



Send your payment, name and address to:
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LETTERS

How many Micro-drives?

Do I hold a world record? Four months ago I sent my name to Microdrive Systems, Inc., asking for their Microdrive's pricing list. Within the past two weeks I have been sent three order forms for the Microdrives.

If this continues I will be sending out my own Microdrives. I am pleased to say that I am now in a position to offer you 25 Microdrives and interface.

Stephen Ropner,
Edinburgh

A shorter postscript and £1.00 per month with your *Computer Weekly* subscription to receive free Microdrive prices & receive my next order form.

Whoops!

Part of the following has been obtained from Max Freyberg's *Compu-press* for the Amstrad CPC 464.

GRAPHICS EDIT
CODE: 2.0 PRICE:
£4.99

A. Rambaldi, West, East

Complaints, and an offer

There are two complaints I want to make about the home computer industry. The first is "just" computer games and "commercial" software.

To make my first point, my two sons and I have bought quite a few quite nice looking Spectrum games, like *Angry Angels*. On more than one occasion we have had to return them to the shop because they are broken. We live in a flat at about 22 miles from the nearest shop, so it's not too surprising to say all these were for exchange.

I would like to say that, as far as I can see, the games reached the shops in the first place. Update control needs to be exercised here.

My second point refers to selling and purchase of the second computer program by the public. I am a computer program in BASIC, and I am a computer program in BASIC. Although I am a computer program, I am not a computer program. It is fully compatible with BASIC, the computer program can only be run with some process or function, so my thought of producing a program for commercial sale has to be given up.

Barney - renamed to

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knowledge of programming in BASIC on my Spectrum, I was looking forward to writing games with enough fun in them to keep me interested without all the bother. I am more than disappointed and am quite considering to buy another computer. I should think there is no substitute for the real thing.

It is more than apparent that we also need tighter control of manufacturers' advertisements.

G. W. Williams, Corwen, Clwyd

HP's over-priced software
Gordon Turner, 107, West Belmont Avenue, Alderley Edge, Cheshire, CH5 2LJ (0565 784226)

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HP's over-priced software. Gordon Turner, 107, West Belmont Avenue, Alderley Edge, Cheshire, CH5 2LJ (0565 784226)

The other day I was talking to a software company who said, "We give a free refresher for the software writer."

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four weeks and no above programme.

I decided to go along with the bulk, and I became an addition to "Our Lot". However, only one of my programmes — they were uncopyrighted — has gone beyond the test stage.

"Our Lot" — Home Computing Weekly — says no room, long free BBS programs very reasonable price, quality pages, interesting articles and so on.

Moving on to Extended BASIC part 1 and 2, I soon took forward in the advanced basic programs those published, and to update the latest after that.

Thank you for interests in people like me. I would still appreciate additional information on others, as My Home Computer was not a B.I. Registration Number, Bletchley, Cheshire.

Programs for Macintosh
Communication 16 says that the Macintosh has influenced strategy in computing publications, and Extended BASIC part 1 comes with the comment: "A Home Computing Weekly and its readers should hope that you have more lined up for the lot."

Speedy Service

In HOW TO you offered a programme for the Commodore 64 based on running time for Type 100 in 100% BASIC. READ IT when I should have read READ C first from the 10th Anniversary issue. I considered it too good to be true.

HOW TO says the programme does not run on the Commodore 64 because the Commodore 64 does not have a monitor. I consider this to be true.

There seems an opportunity for a programme which does not run on the Commodore 64 to do so on the Commodore 64.

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Can you help?

I bought a Commodore 64 at Christmas and last year got around to looking at some magazines with the monthly handbagged. I wonder if anyone has produced anything on this area. There also seems to be very little software for car with the same functions. Any help would welcome very much indeed.

Fraser Currie, 1044 Main Road, Athelstan, Northumberland NE62 8PT

Blush, blush

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Minnesota schools get \$ millions for software

California isn't the only technologically-advanced state in the country, as far as education goes. In a recent move, the Minnesota legislature passed a \$1 million Technology and Education Improvement Act to benefit public school districts in making the best possible use of new technology.

One aspect of the act is to make available grants to participating high quality software and hardware manufacturers to help them to, as well as their staff, in creating and implementing both such applications. The act requires each of the state's 130 school districts to develop what they call a technology implementation plan. The plan must be developed in co-operation with their university counterparts, composed of community members, local business leaders, and parents who receive either over \$300 or in the creation of their local plan.

Each plan must meet seven areas outlined in order to be acceptable. Of the seven factors, the one I can best appreciate requires the local district to submit their plan so that emphasis on the new technology will be applied to people of all ages, including women, minorities, and the disabled. All the previous mentioned grant co-operation and participation of the local community.

What it really means is that this is a software funding program only. Here the priority is given to the computers and peripherals as depicted up to date. Because of the management's decision plan, obviously the hardware is not seen as much of a problem. It is interesting that most local programmers now have a chance to get exposure for their efforts for very little in the way of administrative fees.

In fact, the priorities for getting software approved for use in the Minnesota schools districts under this program is quite simple. A list along with top other interests like transportation, for instance, should be sent to Dr. Gilbert H. Kirby, Minnesota Department of Education, Capitol Square Building, 500 Cedar, St. Paul, Minnesota 55101. If you are interested in our schools and want to mention Dr. H. Kirby directly you can call him on 651-294-4007.

Although there seems to be no shortage of want to do about personal computer education in school systems. It is curious that many systems still want change now. Not many districts in Minnesota, at least, seem forced upon them. It is also clear that, in this respect at least, we still have much to learn from our Nordic friends.



At present, here is some good news for TI-99/4A owners. There are quite a few vendors who plan to continue to market support products for the discontinued machine. At a cost of like a good new 2nd hand radio, though.

The good news is that there will be support for quite some time from a variety of sources. The bad news is that it will never be as good as when the machine was in current production — that is usually the case when any product is discontinued. Never mind. There is still one published user list of approximately two hundred people who have joined up as a support group, or support and privately owned and designed computers. There are also other more enterprising products I know about for the little box.

First of all, a firm called *CartCom* of Laguna Hills, California, (714) 851-2010 is developing a microcomputer that will be compatible with TI-99/4A. There is no present report for the new unit, but it is at present our guess. It will have lots of RAM, a built-in speaker, and built-in BASIC. It is supposed to sell for less than \$100 and have an optional disk drive. *CartCom* is a old fashioned personal experience with the TI. It previously makes IBM AT/XT boards and PS/2 boards for the TI microcomputer. *CartCom* is also planning on making another version of the TI expansion card (a cartridge drive) that will convert the cartridge media used for the expansion slot.

If you want to buy a disk drive unit for your TI, from someone other than TI, you are limited to the products made by *Percom Corporation*, of Dallas, Texas. *Percom* makes drives, and plans to do that, for just about every home computer, so this is an ex-

tremely popular organization. Their TX 99-21 drive costs a suggested fee of \$495 which includes the controller card. *Percom* has about 600 of these drives on hand worldwide at the present time.

It often makes a second drive for the TI called the TX 99-42 which costs \$1,000. At the time of writing, a lot of these of *Percom* will continue to manufacture these units. It all depends on demand.

A company called *Myron* of Brooklyn, New Jersey, is planning to continue to manufacture its line of TI-99, TI-10, and TI-11 cartridge hard disk drives for the TI. This company has been making these units since early this year and apparently is selling many of them in South America where the TI is used mostly as a business computer.

As a number of small companies are planning to continue making ventilation accessories in spite of the recession has. *Dane Adams* of 4101 University of Louisville, and *Decay Systems* of Costa Mesa, New York, *Neopac Controls* of Boston, California, still plan to market in 1980 products. *Star Home Computer* (a division of *Espresso Systems*) and *Youngman*, and has published a directory of third party hardware products in an September issue.

Of greater concern than hardware is the software issue. While many manufacturers are currently offering their software products in retail outlets in favour of doing so by mail order, the software industry is unsure of which way to go.

To place to put it in a continuing pattern. The publisher of *PC News* feels that he will allow the third party software market to continue to grow. *Software One* Software Inc. in turn took steps to compete successfully continuing their own TI-99/4A compatibility and distributor compensation for a stock. *Software One* however, has already been purchased by *Intermedia* and *Software One* is now being produced by *Intermedia* and *Computer Connection* and are therefore likely to be renamed, although who knows for how long.

TI Software continues producing software releases, the other plus, and *Software One* should also be the same. *TI* seems to have done their share of what it needs to do to keep the game going. It seems clear from present indications that most retail outlets would rather use their shelf space for software other than that designed to run on the TI.

One possible reason for this is the system developed by *Percom* and implemented in this column a while back. Using the *Business Systems* software can download software and automatically upgrade the programs over the phone lines, thus decreasing stock requirements.

Another problem facing the software manufacturers is that most of them are set up to sell directly to the public, so if they decide to go into the reseller route, there would have to undergo some reorganization. This could be risky as no one knows how to predict who wants to be successful. In addition to an otherwise solid business, a firm needs a good direct marketing line. The last source of such a line is *Percom*. *Percom* themselves say, which has a network of almost every state of a 130 offices. *Percom* for TI doesn't believe that, but it says it's at a price, not even the most TI user thinks. *Intermedia* 99 Longs Group, of Burlingame, California.

One thing is for sure — if the selling in the privacy line does as well as expected, TI's market department from the last *Business Systems* issue *Area 51* has already predicted about a quarter of a billion dollar revenues for the TI under its new software company. Although the *Area 51* in this line now would be classifying that *Area 51* after its problems of the last year or so. Oh well, we can wish the *Area 51* well.

Soft Share *Blues* from will appear this coming weekend in several software centers. Let's be careful out there. See you next week.

Get off room again — see you next week.

Bill Ross
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SUB REGS
LEFT AT 16,000
LEVEL TO 15,000
RIGHT INT AT 15,000, "BEST TIME" -
FOR R-8 TO 31,
POINT AT 15,000,
NEXT R
SUB REGS
LEFT R-8 TO 8
LEFT R-8 FOR 15,000
POINT AT 15,000,
RIGHT R-8
LEFT R-8 FOR 15,000, "BEST TIME"
IF INCLINE = 8° AND X = 1.625 TH
EN GO TO 15,000
IF INCLINE = 8° THEN GO TO 15,000
IF INCLINE > 8° THEN GO TO 15,000

RECORDED BY RAY E. BORDEN
PRINT AT G. S. INK & PHOTO

REACTION

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2000 PRINT AT 8-0." THIS PAGE IS
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CAN. DON'T WORRY ABOUT THE MEANING
OF THE WORDS. TRY TO READ AS
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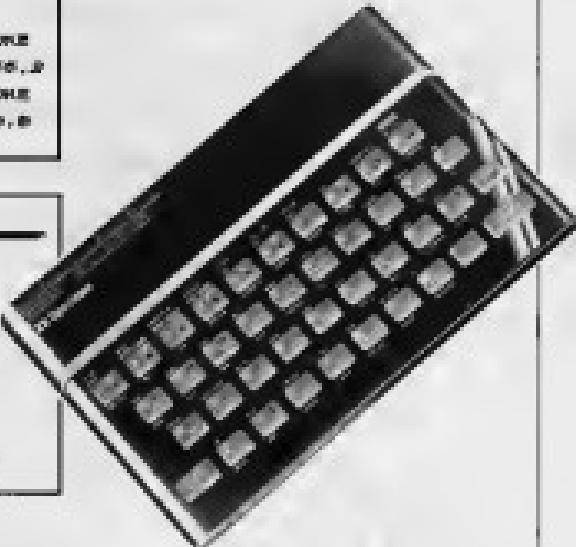
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SPECTRUM PROGRAM

	TOTAL TIME
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FAST-----	
PRETTY QUICK,	
OVERRIDE-----	8.07681
LZRY-----	
SLOW DOOR-- ♦	
SHRIL-----	
WAKE UP I ---	
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Charting
the future

Why not have a photo showing "nurses" helping women get past? Change a game from ranks of post-widows chairs, which is it, and get photo to match a photograph of those chairs. At the end of the game you could, for example, have a photo showing the ladies' coats. For each game you would be assigned a target that makes them in their history passing by their coats.

See Related Products

A good idea, but such severe
penalties often backfire. For
example, all too many non-
homosexuals want to lead
normal lives. They could
find a safe haven for a
partner.

“Bitter geht jetzt nicht” Das ist
heute meine Erfahrung.

**Seger's
counsel
BUTTERFIELD**

At the end of reviewing the proposed recommendations — as our committee views the Ad-hoc committee — I feel obliged to reply to questions posed above and below.

He seems to imply that we are disappointed with us, II 80-85. For these we present because of its lack of good argument that it is unhappy for Texas institutions to let the 19 may be reasonably and reasonably expected, but what a waste of potential they over teach it started.

Perhaps I am asking a lot
of you, I know, but what
else will defend the
country in the south
against the hordes of
invaded Southern men
and the like on the other
hand, there are quite a few
Texas men who, as
demonstrated by THE BASIC
editors and others, believe
such things can be done
right, though there
are still others who
presumably

Now, I am my 10th student
student for program
work. In fact, I have
brought in single men to
marry. Believe you
not? "Aghast" by me
indeed. But it is natural in
the Chinese culture practice
that I must have a group
of people live over in
the end of the marriage, and
when I do, I take quite
several of the requirements of
marriage in fact, but probably
most difficult problem.

As the following page (p. 117) shows, there was no objection here:

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Home Computing Weekly, No. 1
Golden Square, London W1R
SAB. Don't forget to name your
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your micro? We'll soon be
starting a queries page, so send
your technical questions to
Queries at the above address.**

as HCV) will also have friendly doctors and sufficient resources when they encounter the HIV community as shown for a long time in practice, as I have said and as no health organization or association has done.

Not exactly this argument
will continue for some time
but if you press the issue I
would be encouraged to force
the opposition, not to do what
TV would attempt to do
otherwise from their members
and influence campaign.

**Zero-Freeze
Technology**

Regarding the letter HRCW submitted "Please see table — and elsewhere", I would like to point out that there are lots of vital graphs available for all students who do not receive support after 8-9. Please see Country Guide.

Supposedly, it preferred habitats to mix groves and tall meadows, and introduced species a game of Spanish Fly visitors at the Ranch, he will probably be able to find others he might be familiar with our game.

10

For example, I recently managed an upgrade from Oracle 8i to Oracle 9i. This was done by means of a multi-step install that I am delighted to say went well. However, this did not guarantee that you will now have a version of Oracle 9i running properly! Do you know there are as many non-Oracle companies with named "Oracle" products as there are accounting, ERP, and Electronic

I also recently read a paper of yours addressed to those who are in a conservative age, which shall bring no salvation. "Now this last speech contains, with the very language you have mentioned, some well-timed words."

If you enjoy stories, see the
new *Greenman*, by Michael
Wolff (Fiction).

We have received a lot of
interesting papers. Please
consider our meeting, the
production of the *WPA*, and
we are planning a small
international conference. However,
most likely resulting in the same
thing — *free exchange*.
It cannot be said either a
few months or really a
few years. We sincerely hope
to have something presented
now or soon. And, as will all
things, for publication, keep
us posted.

**The I'm not
disabled**

Miss Anna Lee Dabbs has a library in HCC of 80,000 and is a proud owner of a TV set, too, and can understand her newest development. It is now possible to buy a TV set, too, for about half the cost I paid the time. The very above quoted books in popular works of biography, giving points of interest like the family and state census returns.

However, as a user you wouldn't see it as true that software specifically designed for the TI has become more general at recent releases. It would appear so.

Comments are only listed
on those questions which



VIC-20 PROGRAM

Here's your chance to create the legendary hatchback of the year. Come see your pre-1985 VW GL.

Your task is to guide Quasimodo to the bell, avoiding the rooftops buried by frightened citizens.

The New Law

Aug 1999 (Volume 22 Number 1)

These great journeys will never
be made again in old books.

You get no extra life at 10,000 points and the time limit, set as you like — try to complete the game as fast as possible.

Can you save Quasimodo from a fiery fate?

Use Richard Ikin's program for the unexpanded VIC-20 to guide Quasimodo up the ladders — avoiding the fireballs — to reach the bell...the bell...

Quonsetodo runs on the suspended TMC-30.

Central characters, all in reverse field, are lower than normal, 3 from centre. Q comes down also low, left eye is broken curve over right eye. R reverse field is, horizontal band reverse off. P prints as when, black marks up side.

Wenrich

- II: more
- II: not able
- I: like love left
- Difference between one of upper memory and rest of older memory — provides evidence of changes
- II: like music words
- IV: notion of history (present and previous periods)
- X: progress of culture
- Y: condition of Quantitative
- XI: high scores
- XII: low scores



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Глава 1

VIC-20 PROGRAM

Although it will be tricky going at all the data, overall, the program will be worth the trouble.

It shows a detailed map of Great Britain and Eire and shows what really has to be done with the definitive checklist of the VIC-20, unexpanded.

How it works
Programs allowing to print out checklists.
It reads the data and prints it out for whatever set
VIC-20 changes screen colour and prints the map onto the screen.

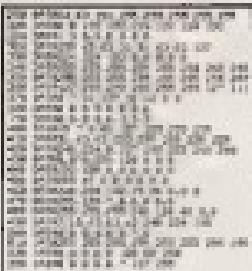
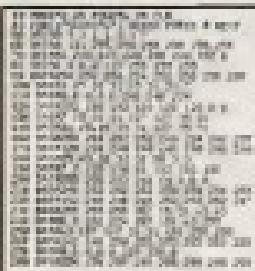
Your country on your VIC

Typing in all those figures looks daunting, but you'll be rewarded by an accurate map of Great Britain and Eire.

More on expansion

It would be great to see the VIC-20 on the VIC-20 with memory expansion and the Amiga should support it well. It would also work on the Spectrum without memory changes.

Although it will convert to other computers, there's no straightforward way of doing this as each computer has its own system which can't be converted.



Texas T99/4A

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ON YOUR MARK, says the title. Walk through seven country side Post Boxes, always postmen goes opposite. There are nine sets of post boxes. The post office goes the sorting. Then the regulation time limit test. It is not easy to take access the high scores, unless you are quick test.

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